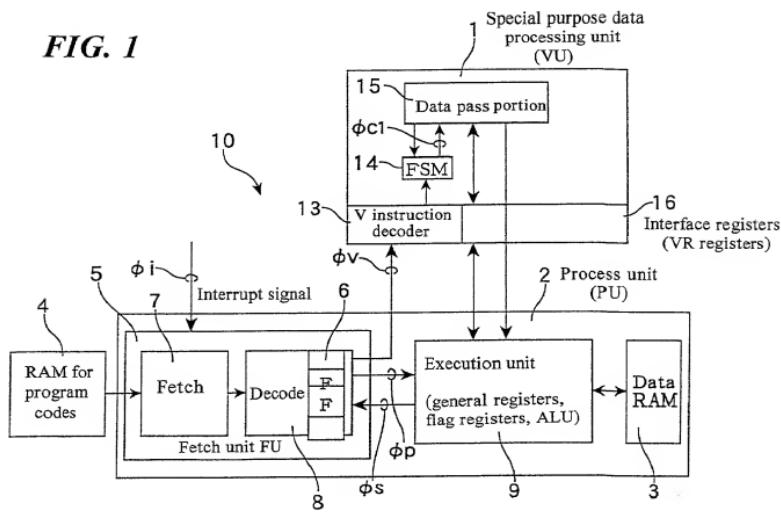
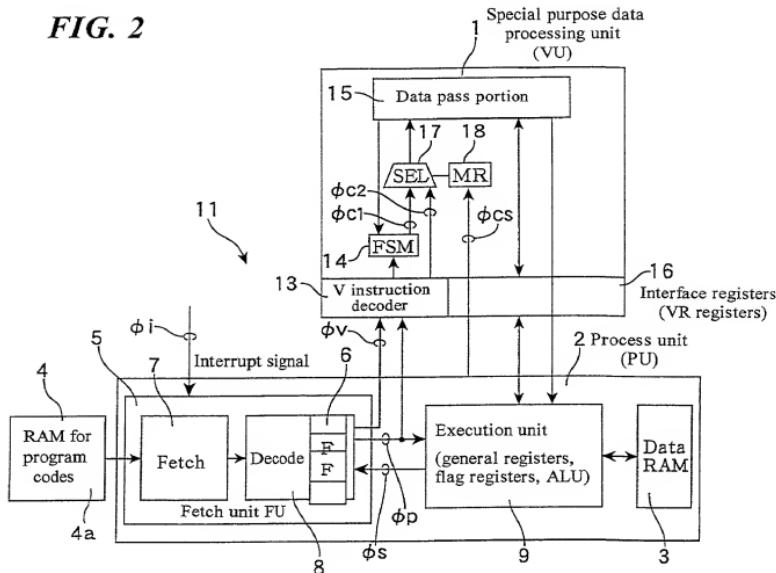


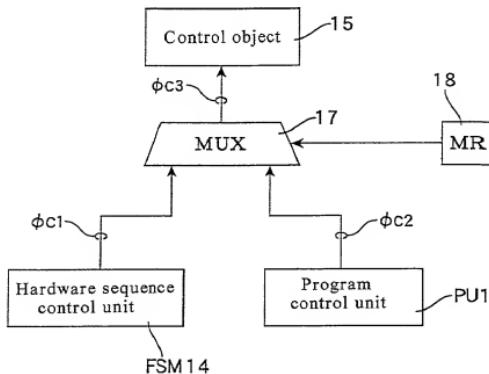
**FIG. 1**



**FIG. 2**

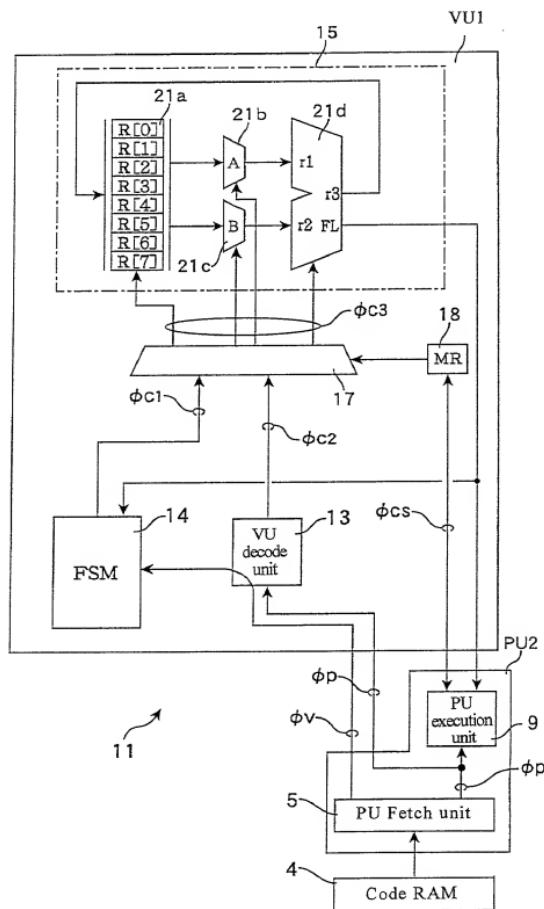


**FIG. 3**

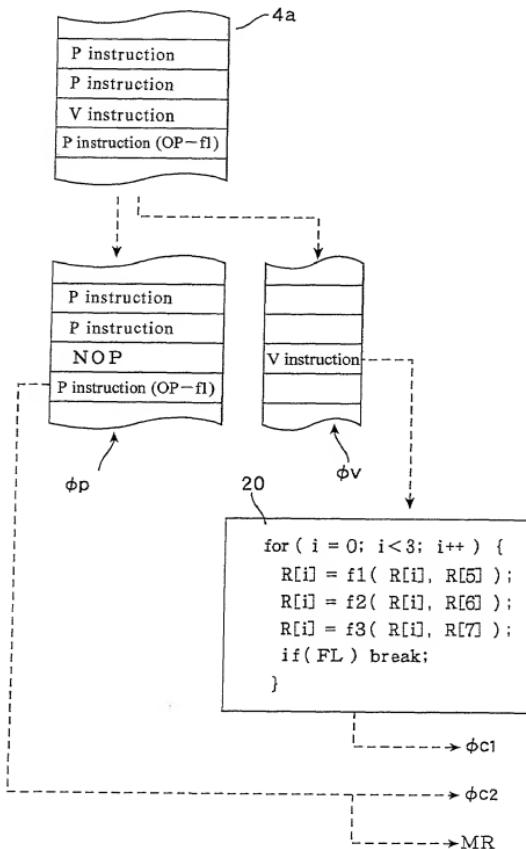


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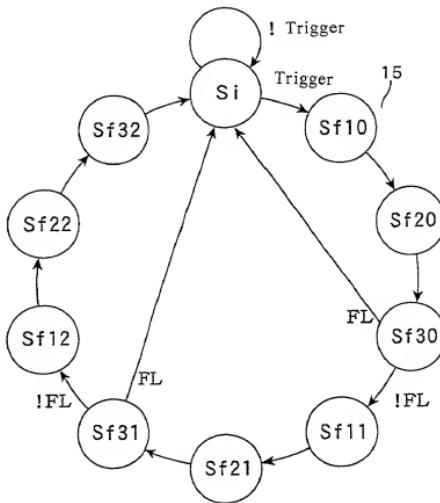
FIG. 4



**FIG. 5**



**FIG. 6**



**FIG. 7**

$\phi c1$

Status	Register file read out selection A	Register file read out selection B	Calculation selection	Register file write selection · approve
Si	no read out	no read out	no calculation selection	no write
Sf10	R[0]	R[5]	f1	R[0]
Sf20	R[0]	R[6]	f2	R[0]
Sf30	R[0]	R[7]	f3	R[0]
Sf11	R[1]	R[5]	f1	R[1]
Sf21	R[1]	R[6]	f2	R[1]
Sf31	R[1]	R[7]	f3	R[1]
Sf12	R[2]	R[5]	f1	R[2]
Sf22	R[2]	R[6]	f2	R[2]
Sf32	R[2]	R[7]	f3	R[2]

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**FIG. 8**

$\phi c2$

Instruction	Register file read out selection A	Register file read out selection B	Calculation selection	Register file write selection · approve
OP-f1 r3,r1,r2	r1	r2	f1	r3
OP-f2 r3,r1,r2	r1	r2	f2	r3
OP-f3 r3,r1,r2	r1	r2	f3	r3

**FIG. 9**

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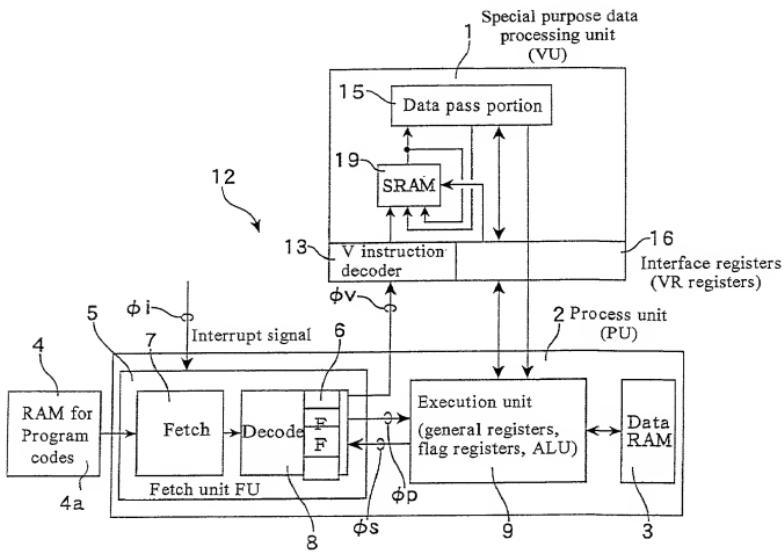
```
for ( i = 0; i < 3; i++ ) {  
    R[i] = f3( R[i], R[7] );  
    R[i] = f2( R[i], R[6] );  
    R[i] = f1( R[i], R[5] );  
    if (FL) break;  
}
```

**FIG. 10**

4b

```
TRIGGER: MOVE MR,#Program control mode  
        MOVE 1, #0  
LOOP:  CMP 1, #3  
        JRC END      ;if(i-3<0) JMP END  
        OP-f3 R[1],R[1],R[7]  
        OP-f2 R[1],R[1],R[6]  
        OP-f1 R[1],R[1],R[5]  
        JRM FL,END  ;if( FL ) JMP END  
        ADD 1, 1, #1  ;i=i+1  
        JMP  LOOP  
END:
```

**FIG. 11**



**FIG. 12**

